Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Ramets\_early ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Ramets before flowering: 2021 | Family | 0.022 | 7.625 | **<0.001** |
| Population | 0.094 | 25.454 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Ramets before flowering: 2021 | Block | 54.019 | **<0.001\*\*\*** |
| Subtransect | 0.003 | 0.96 |
| Distance to City Center | 2.789 | 0.095 |
| Subtransect x Distance to City Center | 1.999 | 0.157 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Ramets\_early ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Ramets before flowering: 2021 | Family | 0.025 | 8.509 | **<0.001** |
| Population | 0.096 | 25.844 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Ramets before flowering: 2021 | Block | 55.892 | **<0.001\*\*\*** |
| Subtransect | 0.158 | 0.691 |
| Urbanization Score | 0.770 | 0.38 |
| Subtransect x Urbanization Score | 1.391 | 0.238 |